

Notice of Allowability

Application No.

09/845,750

Examiner

Li B. Zhen

Applicant(s)

DIXON ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 12/18/2006 and interviews on 3/12/2007 and 3/15/2007.
2. ☒ The allowed claim(s) is/are 59-63 and 67, renumbered as claims 1-6.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 3/15/2007.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


MENG-ALT. AN
SUPERVISORY PATENT EXAMINER
BIOLOGY CENTER 2100

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Nathaniel Levin (Reg. No. 34,860) on March 12, 2007 and March 15, 2007.

The application has been amended as follows:

- a. Cancel claim 64 – 66; and
- b. Replace claims 59, 60, 61 and 67 with the following:

59. A method in a computer system for dispatching requests to perform services to sub-applications that use different logic models the method comprising:

- providing a context for the sub-applications
- receiving a request from a client computer to perform a service; and
- for a plurality of sub-applications,
 - determining whether the received request should be dispatched to the sub-application; and
 - when it is determined that the request should be dispatched to the sub-application, invoking a service routine of the sub-application passing the request whereby the sub-applications share the provided context;

wherein the determining includes determining whether a match criteria for the sub-application matches the received request;

wherein the requests are HTTP requests with a URL and the match criteria is a regular expression relating to the URL;

wherein a respective service routine is invoked for the request with respect to each of at least two of the sub-applications;

wherein the sub-applications are ordered and the invoking of the service routines of the at least two sub-applications is performed in the order of the sub-applications;
and

wherein when it is determined that the request should not be dispatched to any sub-application, an error is logged.

60. A computer system for dispatching HTTP requests to sub-applications, comprising:

a configuration file having a class, initialization parameters, and a match criteria associated with the sub-applications;

an initialization component that instantiates an object of the class for each sub-application in the configuration file, the instantiated object being initialized with the initialization parameters for the sub-application and being provided with a context object, the context object being shared by the instantiated objects so that the sub-applications share a common context;

a dispatcher that receives HTTP requests from client computers and, when the received HTTP request matches a match criteria of a sub-application, invokes

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a service routine of the instantiated object of the class associated with the sub-application;

said dispatcher logging an error if the HTTP request does not match any match criteria;

a memory to store the configuration file, the initialization component, and the dispatcher; and

a processor to execute the configuration file, the initialization component, and the dispatcher;

wherein the match criteria is a regular expression relating to a URL of the HTTP request;

wherein a respective service routine is invoked for at least one of the HTTP requests with respect to each of at least two of the sub-applications; and

wherein the configuration file specifies an ordering of the sub-applications and the dispatcher invokes the service routines of the instantiated objects of the classes associated with the at least two sub-applications in the specified order.

61. A computer system for processing request messages, comprising:

a plurality of sub-applications forming an application, a sub-application having a match criteria indicating when the sub-application should process a request and having a service routine to invoke when the match criteria indicates that the sub-application should process the request, the sub-applications using disparate logic models;

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a context for the application that is shared by the sub-applications;

a dispatcher that receives requests from client computers, evaluates the match criteria to identify which sub-applications have match criteria that match the requests, and invokes the service routines of the identified sub-applications wherein invoked sub-applications use the context;

a memory to store the plurality of sub-applications, the context and the dispatcher; and

a processor to execute the plurality of sub-applications, the context and the dispatcher;

wherein the requests are HTTP requests with a URL and the match criteria is a regular expression relating to the URL;

wherein a respective service routine is invoked for at least one of the requests with respect to each of at least two of the sub-applications; and

wherein the sub-applications are ordered and the dispatcher invokes the service routines of the at least two sub-applications based on the order of the sub-applications.

67. A computer-readable medium having instructions for controlling a computer system to dispatch requests to perform services to service routines, comprising:

program means for receiving a request from a client computer to perform a service; and

for a plurality of service routines,

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program means for retrieving a match criteria for the service routine;

program means for determining whether the received request matches the retrieved match criteria;

when it is determined that the request matches the retrieved match criteria, invoking the service routine for processing of the received request;

whereby the service routines form an application and share a common context;

wherein the requests are HTTP requests with a URL and the match criteria is a regular expression relating to the URL;

wherein at least one of the requests is processed by at least two of the service routines;

wherein the service routines are ordered and the invoking of the at least two service means is performed in the order of the service routines; and

wherein when it is determined that the request does not match any retrieved match criteria, an error is logged.

CONTACT INFORMATION

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768. The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on 571-272-3718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LBZ

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